

**Tableau Training**

Course-End Project Problem Statement



**Course-End Project: Crime Analysis**

**Problem Scenario:** Crime analysis is important for law-and-order maintenance at any place. It helps the police department and law enforcement agencies to identify patterns of crime, which is crucial for the effective planning of a crime prevention program. The purpose of crime data analysis is to support the operations of the police department, like a criminal investigation, apprehension, prosecution, and development of crime prevention and reduction strategies.

**Problem objective:** As a data scientist, you should prepare a dashboard to keep the police department and the city updated on the statistics of crime events. You are required to create a dashboard/story using tableau for the communication website. Pay attention to data storytelling.

**Variable Description:**

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| ID | Indicates the unique identifier for the record |
| Case Number | Indicates the police department's case number, which is unique to the incident |
| Date | Indicates the date when the incident occurred. This is sometimes the best estimate |
| Block | Is the partially redacted address where the incident occurred, placed on the same block as the actual address |
| [UCR](https://data.cityofchicago.org/d/c7ck-438e) | Is the Uniform Crime Reporting code, which directly linked to the Primary Type and Description |
| Primary Type | Is the primary description of the UCR code |
| Description | Indicates the secondary description of the UCR code, a subcategory of the primary description |
| Location Description | Is the description of the location where the incident occurred |
| Arrest | Indicates whether an arrest was made |
| Domestic | Indicates whether the incident was domestic |
| [Beat](https://data.cityofchicago.org/d/aerh-rz74) | Indicates the beat where the incident occurred, and the beat is the smallest police geographic area |
| [District](https://data.cityofchicago.org/d/fthy-xz3r) | Indicates the police district where the incident occurred |
| [Ward](https://data.cityofchicago.org/d/sp34-6z76) | Indicates the ward (city council district) where the incident occurred |
| [Community Area](https://data.cityofchicago.org/d/cauq-8yn6) | Indicates the community area where the incident occurred |
| [NIC Code](http://gis.chicagopolice.org/clearmap_crime_sums/crime_types.html) | Indicates the crime classification as National Incident Code |
| X Coordinate | Indicates the x coordinate of the location, where the incident occurred in the state plane |
| Y Coordinate | Indicates the y coordinate of the location, where the incident occurred in state plane |
| Year | Indicates the year the incident occurred |
| Updated On | Indicates the date and time the record was last updated |
| Latitude | Indicates the latitude of the location, where the incident occurred |
| Longitude | Indicates the longitude of the location, where the incident occurred |
| Location | Indicates the location, where the incident occurred in a format that allows for the creation of maps and other geographic operations on this data portal |